

STATEMENT OF WORKSHIPBOARD SECURITY MODULE (SSM) and SHIPBOARD PHYSICAL
SECURITY (SPS) INSTALLATION SERVICES CONTRACT

1. SCOPE. This Statement of Work (SOW) sets forth the requirements for non-personal, technical services for the Shipboard Physical Security Branch (Code 4042) of the Ordnance Engineering Department, NAVSEA (NAVSURFWARCENDIV CRANE) CRANE. The efforts to be performed under this SOW provide support for the installation of SSM and SPS equipment aboard Military Sealift Command (MSC) and US Navy ships. (From here forward all ships, MSC or US Navy, will be referred to as Naval Vessels).

1.1 Background. The Shipboard Physical Security Branch performs Technical Direction Agent (TDA), Design Agent (DA), Acquisition Engineering Agent (AEA), Systems Integration Agent (SIA), and Integrated Logistics Support Manager (ILSM) functions for assigned Shipboard Physical Security (SPS) systems. Code 4042 also performs systems integration, systems engineering and development testing of SPS systems and radio/communication system hardware and software including, but not limited to, requirements definition and documentation, application design documentation, hardware/software procurement planning, issuance planning, technical design planning, system development, system enhancement, integration development planning, and developmental/operational test and evaluation. In addition, the Shipboard Physical Security Branch provides support to the Military Sealift Command (MSC) and U.S. Navy Shipboard Physical Security (SPS) Program and other related projects through Acquisition, Installation and In-service Engineering Agent (ISEA) functions.

1.2 Quality Assurance. The Government will monitor the Contractor's contract work performance under this SOW by requiring progress reports, conducting on-site inspections and inspecting contract deliverables for compliance to Task Order requirements.

1.3 Contractor and Government Meetings. As determined by the Contracting Officer, the Contractor's representative(s) may be required to meet with the Contracting Officer and the Contracting Officer's Representative (COR) on a periodic basis. The Government's written minutes of these meetings

shall be signed by the Contractor's representative, Contractor Officer and COR. The Contractor shall state any areas of non-concurrence in writing to the Contracting Officer within ten working days after receipt of the signed minutes.

2.0 APPLICABLE DOCUMENTATION. The following documents of the exact issue listed below form a part of this SOW to the extent specified herein. Performance under this contract shall be in accordance with the following standards and specifications, as required. Whether or not specifically required in a work item or General Technical Requirements (GTR), all of the applicable laws of the United States and the requirements of the various regulatory bodies in force at the time of contract award shall apply to the work performed under the contract including, but not limited to, those listed in Table 2-1.

TABLE 2-1

- A. American Bureau of Shipping (ABS), Rules for Building and Classing Steel Vessels.
- B. United States Coast Guard (USCG), Code of Federal Regulations, Title 46 - Shipping (46 CFR).
- C. International Maritime Organization (IMO): Including all resolutions and amendments as adopted for the International Convention for the Safety of Life at Sea (SOLAS).
- D. NAVSEA S9AAO-AB-GSO-010/GSO, General Specifications for Overhaul of Surface Navy Ships
- E. NAVSEA S9AAO-AA-SPN-010/GEN SPEC, General Specifications for Ships
- F. NAVSEA S9074-AR-GIB-010/278, Requirements for Fabrication Welding and Inspection and Casting Inspection and Repair for Machinery, Piping and Pressure Vessels
- G. NAVSEA S9300-AW-EDG-010, Electric Plant Installation Standard Methods
- H. NAVSEAINST 4720.11, Shipboard Installation and Modifications Performed by Alteration Installation Teams
- I. NAVSEAINST 4790.17, Fleet Test and Repair of Shipboard Electronics Equipment
- J. NAVSEAINST 9304.1, Shipboard Electrical Cable and Cableway Inspection and Reporting Procedures

- K. NAVSEA S9086-VD-STM-010/020/030, NSTM Chapter 631 Volumes 1, 2 and 3 (Preservation of Ships In-service)
- L. NAVSEA S9086-VH-STM-000/CH-635, Thermal Insulation
- M. MIL-HDBK-454A, Standard General Requirements for Electronic Equipment
- N. NAVSEA S9074-AQ-GIB-010/248, Welding and Brazing Procedure and Performance Qualification
- O. MIL-STD-1310G, (NAVY) Bonding and Grounding
- P. OPNAV Instruction 5100-23B, Navy Occupational Safety and Health (NAVOSH) Program manual
- Q. T9074-AS-GIB-010/271, Requirements for Nondestructive Testing
- R. MIL-STD-2035, Nondestructive testing acceptance criteria
- S. MIL-STD-0022DD, Welded Joint Design
- T. MIL-STD-1689A (SH), Fabrication, Welding and Inspection of Ship Structures
- U. IEEE 45, Recommended Practice for Electrical Installations on Shipboard

3.0 SCOPE OF WORK. Work to be performed, required data deliverables, and applicable governing documents shall be specifically described in Task Orders to be placed against the contract by the Contracting Officer and shall be within the parameters of the tasks listed below. As required by the Task Order, the Contractor shall furnish all labor, facilities, material, and equipment except for that material, facilities, and equipment to be provided by the Government as Government Furnished Information (GFI), Government Furnished Material (GFM), Government Furnished Property (GFP), and Government Furnished Equipment (GFE). Government personnel will provide follow-on testing, equipment issue, and training. The Contractor shall provide shipboard installation services as required by Task Order.

3.1 Shipboard Installation. The Contractor shall provide shipboard installation services, utilizing a government led Alteration Installation Team (AIT). However, if the NAVSEA Crane AIT leader is unavailable, the Contractor shall be capable of installing systems independently.

3.1.1 The Contractor shall provide fabrication (for items such as foundations, electrical support, etc. and parts/equipment needed for unique form, fit or function requirements) and trade labor support. The Contractor shall perform work on all types of naval vessels, pier side

security facilities and at shore-based facilities, including but not limited to, operating, testing, training and maintenance sites, both commercial and government. The Contractor shall provide qualified and certified personnel to perform the tasks described in this Scope of Work.

The Contractor shall have necessary shop facilities, equipment and capabilities including machines, tooling, tools, support and space (or have access to machine facilities) to fabricate/prefabricate parts, components and assemblies, to safely and securely move and maintain materials and order, and to process and certify material and equipment. Contractor may be required to provide a safe, secure, portable workshop (i.e. CONEX boxes) as directed by the Task Order to support the work effort on-site with adequate tools/tooling, safety equipment, material storage areas and an adequate supply of related consumables.

3.1.2 The Contractor shall make up Fiber Optic Connections during installations. The Contractor shall have the capabilities to finish epoxy, crimp type and hot melt fiber optic connections. The Contractor shall provide qualified personnel capable of assembling the fiber connections, cleaving the connector, polishing the connector, testing the connector for loss and documenting the process. The Contractor shall test for watertight integrity using air hose test method in NAVSEA S9AAO-AB-GSO-010/GSO, Sect. 192F, General Specification for Overhaul of Surface Navy Ships and/or to ABS standards all stuffing tubes and kick pipes installed. The Contractor shall be capable of installing MIL-SPEC Bayonet connectors, RG-58 connectors and RJ-45 (Ethernet) connectors along with terminating applicable wires within system junction boxes. The Contractor shall resistance check all connections prior to system light off. The Government Alteration Installation Team (AIT) leader will then energize the system for operational checks.

3.1.3 The Contractor shall assist NAVSEA Crane AIT leader with system verification and testing. The Contractor Foreman shall witness the system testing and be responsible for any corrections arising from the contractor's installation services. The Contractor shall not deviate from the applicable Ship Installation Drawing prior to receiving approval from the Government AIT leader identified in each Task Order.

3.2 The Contractor shall assign one dedicated Foreman per work effort/work location for the duration of each work effort. The Contractor shall ensure that each Foreman is prepared to discuss all aspects of their assigned project's effort including personnel resources, personnel qualifications, and availabilities, applicable safety equipment requirements and provisions, material and equipment status, shipping schedules and related impacts, work and effort requirements and safety concerns. Trades personnel employed by the Contractor shall meet the technical skill requirements at the journeyman level, have the required security clearances, be properly trained in the use of and provisioned with applicable safety equipment and accommodate US Navy, USCG, ABS, Federal and Local Government rules and regulations concerning safe working conditions, ethics and hazardous materials handling, use and disposal.

3.3 Contractor Furnished Material. The Contractor shall furnish portable tools and equipment including, but not limited to, welding machine(s), cutting torches, drill motors, drill bits, grinders, etc. to accomplish the task independently. Other items could include the following:

- MISC Foundations and supports (To be negotiated)
- MISC Welding supplies
- MISC mounting hardware
- MISC paint, insulation and deck tile
- Banding material/Channel Rubber/Banding buckles
- System Cable Tags
- System Component Tags
- Power Panel Identification Tags
- System component labels
- System cabling (To be identified on Task Order)

3.4 Transportation of Equipment/Material. The Contractor may be tasked to transport government equipment, material and installation tools from a government or contractor warehouse to pier-side of the ship, and return shipment of Government equipment post installation to the originating Government facility/Base. Specifics of this requirement will be detailed in each Task Order.

3.5 Facilities. The Contractor shall maintain and/or have quick access to an adequately outfitted machine shop capable of, but not limited to, prefabricating parts,

manufacturing and/or providing needed last minute parts and/or modifications to as-found materials. The contractor shall have adequate storage space for staging equipment and materials as required for individually placed Task Orders on this contract. Rental of specialty equipment not routinely used must be authorized on the specific Task Order.

The Contractor shall maintain, or have access to, a fully outfitted machine and sheet metal shop(s) capable of, but not limited to, performing basic operational testing, performance evaluations, etc. as required in this contract and related Task Orders. The following are considered to be typically available to an outfitted facility: (All on-site Electrical devices are to be capable of operating from shipboard power)

- A. Machine Tools (Non-Rentals)
- B. Lathe, Drills (1/4" and 1/2" shank capable)
- C. Milling machine horizontal power grinders, sanders, chippers and peelers.
- D. Milling machine, vertical drills, magnetic base and portable
- E. Drill press and chain falls
- F. Power hacksaws and bandsaws
- G. Droplights and extension cords
- H. Sheet metal shears and brakes
- I. Amp, volt and multimeters and meggers
- J. Fiber optic termination and testing equipment
- K. Welders and cutters VARIAC and phase meters
- L. Insertion and extraction tools for MIL-SPEC connectors
- M. Ironworker
- N. Wire wrap and crimping tools
- O. Wire sleeving maker
- P. Compartment blowers w/hoses
- Q. Acetylene burning units
- R. Portable welders (DC, MIG and TIG) and plasma arc
- S. Wet/dry vacuums, brooms and whisks
- T. Full array of hand tools and bolt cutters

3.6 Acceptance/Quality Plan. NAVSEA Crane AIT Leader has the responsibility for Government Inspection and Acceptance. The Government AIT on-site personnel are required to conduct inspection at the place of performance. The purpose of this requirement is to assure that all work has been accomplished in accordance with Task Order directions, approved specifications and drawings and

applicable standards and practices including, but not limited to, documents as stated in Section 2, Specifications & Standards. The contractor shall furnish a Quality Assurance (QA) Work Book in accordance with CDRL A001.

3.6.1 The Contractor shall provide a QA Workbook Plan and Schedule at each installation site. In addition to this, the work conducted by the contractor will be subjected to the following tests. The tests will be conducted with the Government AIT leader on-site. Together, the tests, inspections and certifications will constitute the QA Workbook Plan. The QA Workbook Plan will be a joint on-going document the Government and Contractor will compile as the installation progresses. CDRL A002 applies. The team will be expected to perform the following inspections, certifications and tests and provide a copy of the results for the following:

- A. Cable continuity and correct electrical hookup
- B. Pressure testing of watertight compartment entries
- C. Input and output power levels
- D. Bonding, grounding and shielding
- E. Required electronic equipment
- F. Required weld joints non-destructive testing
- G. Secured cables to cable wireways with flexible cinch banding straps
- H. Kick pipes and stuffing tubes are used for all penetrations of decks and watertight bulkheads. Stuffing tubes shall be statically tested for watertight integrity.
- I. Gas-free certification before welding
- J. Collars and nylon stuffing tubes installed in all penetrations of non-watertight bulkheads
- K. Warning, caution and safety plates comply with MIL-P-15024
- L. Receipt inspection of all material procured
- M. Foreman job-site narratives shall be provided. Job-Site Narratives shall reflect overall and sub tasks' related accomplishments, team members and their arrival and departure times, scheduled overtime, problems encountered and their resolutions, anticipated changes and problems and material status.
- N. All personnel know and adhere to the requirements of this contract and the approved contractor's Quality Assurance Program.

- O. Reliability and maintainability (R&M) and Safety Requirements shall be defined in accordance with MIL-STD-721.
- P. The contractor shall provide personnel, material and tooling for all hull, electrical and mechanical aspects of testing, repair, replacement, modification or alteration to the naval vessels.
- Q. Foreman job-site narratives shall be delivered to NAVSEA Crane Program Manager within five days of the job conclusion. Job-Site Narratives shall reflect overall and sub tasks' progress/completion, day-by-day work schedules and related accomplishments, team members and their arrival and departure times, scheduled overtime, problems encountered and their resolutions, anticipated changes and problems and material status.
- R. Action items and lessons learned should be filed with the job-site narrative. If substantial, this can be filed separately within 10 days following completion of the work effort.
- S. Maintain work crew personnel security information, safety and certifications for all personnel connected with the installation.
- T. Provide a comprehensive Quality Assurance Program/Plan to be developed in order to comply with the QA inspections/requirements. The plan shall be submitted as part of the Technical Proposal. The Contractor QA Workbook must be present on location of each and every installation.

3.7 Inspection and Manner of Conducting Business. Prior to the work start date, the Contractor Foreman shall meet with the NAVSEA Crane Program Manager and/or Installation Manager to review the installation plan, drawings, work schedule and to reaffirm the chain of command.

- A. The NAVSEA Crane Program Manager and/or Installation Manager will provide directions and requirements to the Foreman (rather than individual team members). When the Foreman leaves the ship while work is in progress, the Foreman shall appoint an acting Foreman and identify this individual to the NAVSEA Crane AIT Leader or the government on-site representative.
- B. The Contractor shall discuss all proposed material substitutions and the NAVSEA Crane AIT Leader will agree with substitutions before any work begins. Approval of any material substitution does not relieve

the contractor from the requirement to not incur costs in excess of the ceiling price set forth in the applicable Task Order.

- C. The Foreman shall brief the NAVSEA AIT Leader with verbal update on work progress and status each workday before 0900 on the following:
- Adherence to planned schedule
 - Number of personnel onboard
 - Material needed or proposed substitution
 - Any proposed changes in the installation
 - Change in scheduled completion date
 - Labor hours used on previous day
- D. The foreman shall brief the Government AIT or on-site Installation Manager on work progress/problems upon completion of each day's work.
- E. The Contractor employees shall not visit ships without prior NAVSEA Crane Program Manager or NAVSEA AIT Leader prior approval.
- F. The Contractor shall forward security clearances to the appropriate ships, facilities and to the NSWC Crane Installation Manager in a timely manner to assure access can be granted for contracting personnel.
- G. All work will be inspected in accordance with the criteria provided under contract Task Orders and by the provisions of this contract.
- H. Overall coordination of each work effort is the responsibility of the assigned NAVSEA Program Manager and NAVSEA AIT Leader.

3.8 Material Support. The contractor shall provide the following material support:

- A. Adequately trained and certified personnel to procure, store and stage material identified in the applicable Task Orders.
- B. All contractor furnished material and equipment as required by the Task Order.
- C. Safe, secure storage facility for government furnished material and equipment as required by the Task Orders.
- D. Safe, secure transportation of material and equipment to and between the Contractor, NAVSEA Crane, subcontractor, other sites (as determined necessary to complete the work effort) and work sites as determined by particular Task Orders.

The cost of general business purpose items/expenses, required for the conduct of the Contractor's normal business operations, shall not be considered an allowed direct cost in the performance of this contract. General-purpose business items include, but are not limited to, telephones, facsimile machines, reproduction machines, word processing equipment, personal computers, office equipment and consumable supplies.

The following types of "material and equipment" that may be charged to this contract by the Contractor, once approved by Task Order, include, but are not limited to, the following:

- A. Plate, metal
- B. Angle, structural
- C. Wire, electrical
- D. Relay, electrical
- E. Switch, proximity
- F. Switch, balanced magnetic
- G. Banding
- H. Channel rubber
- I. Welding support items
- J. Cable
- K. Paint/primer

3.9 Post Award Meeting. The Contractor(s) shall attend a post-award meeting at either Naval Surface Warfare Center Crane Division, an arranged conference center in the contractor's area, or at the contractor's facility. Any Contractor travel associated with the Post-Award Meeting shall be at the Government's Expense.

3.10 Progress Meetings. Progress meetings with the COR and others designated by the Government (e.g., technical or installation experts) will begin after the Post-Award Meeting through completion of the Contract. Meetings may be conducted at Contractor's facility, via telephone or VTC, at Government's discretion. The Government anticipates that initial meetings will be at the Contractor's facility. During the meetings, the Contractor shall work with the Government and review schedules, identify issues, and work to resolve any problems. The contractor shall furnish Progress Meeting Minutes in accordance with CDRL A003.

3.11 Installation Completion Report. When the installation aboard the ship has been completed, tested, and verified, the Contractor's representative and the Government AIT lead shall sign an installation completion form. This form records the exact time and date of the actual completion, which will be used in calculating the individual Task Order incentive fee. The contractor shall furnish the completion and acceptance report in accordance with CDRL A004.

4.0 GOVERNMENT FURNISHED ITEMS. The following government furnished items will be provided to the Contractor as a means to accomplish the requirements of the tasks described in this SOW.

4.1 Government Furnished Information (GFI). The Contractor will be provided project source documentation in the form of Appropriate Transportation Alteration (TRANSALT) Installation Plans, Ship Installation Drawings (SID), Installation Control Drawings (ICD), Wire Termination Drawings and Cable run sheets in sufficient time to allow completion of assigned tasking.

4.2 Government Furnished Material (GFM). The Government will furnish system material/equipment under this contract. Any GFM and required instructions to be furnished shall be identified in each specific Task Order. The Contractor shall provide the handling, storage and placement of the GFM into the work areas as defined in the Installation documentation package. GFM provided to the contractor for installation shall be subject to FAR Clause 52.245-5 "Government Property" and will become the responsibility of the Contractor to replace or repair (at the Government's discretion) if lost, stolen or damaged while in the Contractor's care.

The items to be installed may include, but are not limited to, the following Physical Security items:

<u>DESCRIPTION</u>	<u>QUANTITY</u>
Cameras, interior	A/R
Cameras, exterior	A/R
Hull lights	A/R
Speakers	A/R
Infra-red motion detector	A/R
Metal detector	A/R
Scanner, security	A/R

Armory, weapon/ammunition	A/R
Gun mount	A/R
Turnstile	A/R
Equipment rack	A/R
Alarm Monitoring & Access Station (AMAS)	A/R
Radios	A/R
Perimeter security	A/R
Pier-side security	A/R
Key Control security	A/R
Surface search radar	A/R
Power panels	A/R
Hoffman/Junction boxes	A/R

5.0 DATA DELIVERABLES.

<u>SOW Para</u>	<u>Seq No</u>	<u>Data Description</u>	<u>DID No</u>
3.6	A001	Technical Data Package	DI-QCIC-81009
		Quality Control Program Plan	
3.6.1	A002	Technical Report - Study/	DI-MISC-80508A
		Services	
3.10	A003	Report, Record of Meeting/	DI-ADMN-81505
		Services	
3.11	A004	Technical Report - Study/	DI-MISC-80508A
		Services	
5.1	A005	Contractor's Progress,	DI-MGMT-80227
		Status and Management Report	
6.1	A006	Technical Report - Study/	DI-MISC-80508A
		Services	

5.1 The Contractor shall provide monthly progress reports to Mr. Larry Muench, Code 4042. The Contractor shall generate monthly status reports when a Task Order is still active and has yet to be closed out for final payment. The Status Report documents the status of the Contractor efforts towards achieving contract objectives. The Status Report identifies accomplishments to date and difficulties encountered, and compares the status achieved to planned goals and the resources expended. The Status Report is used by the Government to monitor and evaluate contractor performance. The contractor shall furnish monthly status reports in accordance with CDRL A005.

6.0 SPECIAL CONSIDERATIONS. The following special considerations shall apply to the Contractor in the performance of the tasks of this Task Order (TO).

6.1 Security Classification. The tasks described in this SOW may include material classified up to the SECRET level. A list of security clearance information shall be provided to the NAVSEA Crane Program Manager, and the site where the work will take place, at least 15 days prior to the work start date for each Task Order issued under this contract. The list shall include full name, social security number, citizenship and level of clearance. Personal security information for all personnel connected with the contract, including full name, social security number, citizenship and level of clearance, shall be submitted to the Contracting Officers Representative (COR) initially and updated quarterly for the duration of the contract. CDRL A006 applies.

6.2 Travel. Travel Guidelines to be IAW the Joint Travel Regulations, Vol 2 for Civilians.

The contractor will be required to travel throughout the continental United States (CONUS) and to locations outside of CONUS (OCONUS). Travel to OCONUS destinations will require a passport. Single Trip Durations will not normally exceed 45 working days plus the required transit time. The Contractor is authorized to use contract funds for and during travel in order to complete assigned tasking. Code 4042 will determine travel destinations, dates and purpose as schedules develop.

When installation assignments require temporary duty aboard a deployed/underway naval vessel, the Contractor will be reimbursed at the per diem rates identified in the JTR, Vol 2, Chapter 4, Part L: Per Diem allowances.

6.3 The Contractor shall abide by all US Navy, USCG, ABS, Federal and Local Government rules and regulations concerning safe working conditions, ethics and hazardous materials handling, use and disposal.

6.4 Points of Contact. The Contracting Officer's Representative (COR) Mr. Larry Muench, Code 4042, telephone (812) 854-2456, is the technical point of contact for substantive communications of a technical nature. Technical interchange of a non-substantive nature may be made with Mr. Phil Embry, Code 4042, telephone (812) 854-6469.

7.0 PERIOD OF PERFORMANCE. The period of performance of this Contract shall not exceed 5 years.

7.1 Place of Performance. The Contractor shall perform work on all types of naval vessels, pier side security facilities and at shore-based facilities, including but not limited to, operating, testing, training and maintenance sites, both commercial and government.